

# ABSTRACT

An object of the present invention is to provide a hydrothermal electrolytic apparatus that allows a large amount of waste liquor to be efficiently treated. In order  
5 to attain this object, a hydrothermal electrolytic apparatus according to an aspect of the present invention comprises a reaction cell for electrolyzing influent at high temperature and high pressure wherein the overall surface area of a pair of electrodes located in the  
10 reaction cell 31 per 1 m<sup>3</sup> of the volume of the influent is 0.05 m<sup>2</sup> or more. A hydrothermal electrolytic apparatus according to one embodiment of the present invention has two or more tubular reaction cells each having a metal inner wall serving as a cathode and an anode is provided in  
15 each of said reaction cells. A hydrothermal electrolytic process according to another aspect of the present invention comprises incorporating conductive particles into the influent to substantially increase the surface area of electrodes in hydrothermal electrolysis.

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